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# DECORATIVE ADHESIVE SHEET
[Keshoyo nenchaku shiito]

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Specification /1*

1. Title of the Invention

Decorative Adhesive Sheet

2. Utility model registration claim(s)

[Claim 1] A decorative adhesive sheet prepared by coating an adhesive agent on the back face of a decorative sheet having no air-permeability and applying a parting sheet 3 thereon, wherein many fine holes 4 penetrating through the decorative sheet 1 and the adhesive agent layer 2 are formed.

3. Detailed Explanation of the Invention /2

[Purpose of the Invention]

[Industrial Field]

This invention relates to an improvement of decorative adhesive sheet.

[Prior Art]

In a typical configuration of a decorative adhesive sheet laminated on a wall, for example, after a thin sheet printed with pictures/patterns is laminated with a transparent polyvinyl film to prepare a decorative sheet having no air-permeability, an adhesive agent is coated over the back surface thereof followed by attaching a parting sheet thereon.

When laminating this decorative adhesive sheet, air may remain between a wall and a decorative adhesive sheet to form air-bubbles. For eliminating these air-bubbles, holes must be formed through air-

bubble areas of decorative adhesive sheet with a needle, a cutter, etc. to allow air escape. This method not only requires a cumbersome task but may damage the appearance of the decorative sheet.

[Problems to be Solved by the Invention]

The purpose of this invention is to provide a decorative adhesive sheet which can fundamentally modify the aforementioned method by preventing air-bubbles when a sheet is applied on a wall or the like. /3

[Constitution of the Invention]

[Means to Solve the Problems]

As shown in Fig. 1 and Fig. 2, the decorative adhesive sheet of this invention is prepared by coating an adhesive agent on the back face of a decorative sheet having no air-permeability and applying a parting sheet 3 thereon, wherein many fine holes 4 penetrating through the decorative sheet 1 and the adhesive agent layer 2 are formed.

As a decorative sheet having no air-permeability, in addition to the aforementioned sheet, there may be used any arbitrary decorative sheet, such as a sheet prepared by printing pictures/patterns on a plastic (e.g., polyvinyl chloride or polyethylene terephthalate) film, laminating a same type or different type of plastic film thereon, and applying an embossing-finishing thereon if needed.

The diameter of the fine hole is about 0.03 - 0.5 mm, preferably about 0.005 - 0.05 mm. Without saying that the positions of these

holes may be randomly assigned, however, it will be easier if they are formed in a regularly manner, vertically and horizontally, with a pitch of several mm - several cm. To form holes, a regular needle /4
roll maybe run through the sheet surface, or a plate having needles planted thereon may be pressed against the surface of the sheet so as to make holes in every fixed area.

[Operation]

With the decorative adhesive sheet of this invention, even if air remains under the sheet when the sheet is laminated on a wall or the like, air easily escapes through fine holes penetrating through the decorative sheet and adhesive agent layer to prevent air-bubbles from forming.

Moreover, fine holes do not damage the appearance of decorative adhesive sheet.

[Embodiment]

A picture pattern was photogravured on a colored polyvinyl chloride sheet having a thickness of 75 $\mu$, followed by laminating a transparent polyvinyl chloride film having a thickness of 75 $\mu$ using a doubling-embossing method to prepare a decorative sheet.

After an adhesive agent in acrylic resin base was applied in a thickness of 30 $\mu$ to the back face of this decorative sheet, 2 rows (5 mm spacing between rows) of fine holes 4, as shown in Figure 2, /5
each having a diameter of about 0.01 mm and penetrating through the decorative sheet and the adhesive agent layer, were formed in the

width direction with a pitch of 5 mm using a needle roll. These rows of holes were repeatedly formed in the vertical direction with a pitch of 30 mm. Thereafter, a polyester film parting sheet having a thickness of 38 $\mu$ was laminated thereon to prepare the decorative adhesive sheet.

[Effect of the Invention]

With the decorative adhesive sheet of this invention, when the sheet is applied to a wall or the like, since air does not remain between the wall and the sheet, air-bubbles are not formed, thereby eliminating a process of breaking air-bubbles with needles for allowing air to escape. Hence, the task of laminating a sheet can be efficiently undertaken. Fine holes do not damage the appearance of decorative sheet.

4. Brief Explanation of the Figures /6

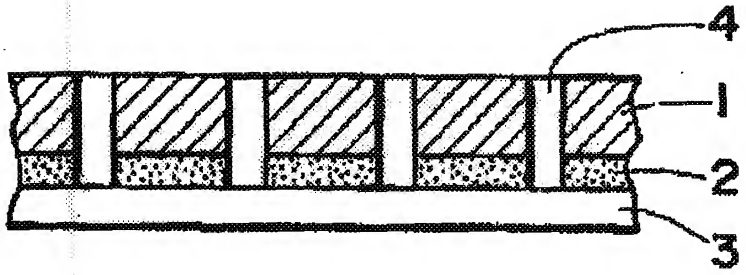
Fig. 1 is a pattern diagram illustrating the cross-sectional view of the configuration of a decorative adhesive sheet of this invention.

Fig. 2 illustrates a top view of an example of decorative adhesive sheet of this invention.

[Explanation of the Reference Numerals]

1...Decorative sheet having no air-permeability; 2...Adhesive agent layer; 3...Parting sheet; 4...Fine hole

[Figure 1]




[Figure 2]